UNCLASSIFIED

AD 404 700

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



UNCLASSIFIED

MOTICE: When government or other drawings, specifications or claer data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

FOR ERRATA

THE FOLLOWING PAGES ARE CHANGES

TO BASIC DOCUMENT

40 40x 700 404700

TECHNICAL MEMORANDUM

(TM Series)

DDC AVAILABILITY NOTICE

Qualified requesters may obtain copies of this report from DDC.

This document was produced by SDC in performance of contract AF 19(628)-1648, Space Systems Division Program, for Space Systems Division, AFSC.

1604 Simulation Program Descriptions
Milestone II

Simulated Vehicle Time Message Makeup Routine (SCGR)

bу

P. T. Kastama

21 October 1963

Approved

R. E. Busch

SYSTEM

DEVELOPMENT

CORPORATION

2500 COLORADO AVE.

SANTA MONICA

CALIFORNIA

The views, conclusions or recommendations expressed in this document do not necessarily reflect the official views or policies of agencies of the United States Government.

Permission to quote from this document or to reproduce it, wholly or in part, should be obtained in advance from the System Development Corporation, or from authorized agencies of the U.S. Government.



Although this document contains no classified information it has not been cleared for open publication by the Department of Defense. Open publication, wholly or in part, is prohibited without the prior approval of the System Development Corporation.

DEC 14 1968

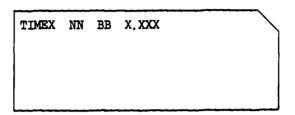
TISIA A

CURRENT MODIFICATION

Modified Pages	Notes and Filing Instructions
Cover Page	Remove Cover Page and insert Cover Page dated 10/21/63.
A	Remove A page and insert A page dated 10/21/63.
1	ERRATA* Section 1.1, second line. Change "Mod. 04" to "Mod. 05."
2	Remove Page 2 and insert Page 2 dated 10/21/63.
3	Remove Page 3 and insert Page 3 dated 10/21/63.
5	Remove Page 5 and insert Page 5 dated 10/21/63.
6	Remove Page 6 and insert Page 6 and 6A dated 10/21/63.

^{*}ERRATA modifications are to be entered by hand.

3.4 Control Card Format



Where:

Columns 1-4 = Time

5 = A, B or C to specify the type of vehicle time counter.

- 15-16 = A decimal number (01 \leq NN \leq 99) which specifies the desired time interval between time messages. If blank, a period of 30 seconds will be used.
- 23-24 = A decimal number O1 \leq BB \leq 22 which specifies the number of bits in the vehicle time counter.
- 28-32 = A decimal number of the form X.XXX where 0.001 ≤ X.XXX

 ≤ 9.999 which specifies the value of the least significant bit of the vehicle time counter.

3.5 Error Printouts

If Column 5 of the input card image contains any BCD character other than A, B or C, subroutine SEAPA is entered for an on-line printout of the error, recovery options, and an error halt. The on-line message is:

ILLEGAL VEHICLE TIME TYPE SPECIFIED, PUSH START TO GENERATE OTHER DATA OR FIX CARD AND RE-START WITH AUTOLOAD.

3.6 Output Data Format

The output of SCGR is a vehicle time message packed in the SIPSA System Table, SIMBUF. The message in SIMBUF will appear as follows:

SIMBUF +0	0000	0000	0000	0010
+1	7777	SS15	OOTT	TTTT
+2	VVVV	VVVV	Z.Z.Z.	CKSUM
+3	0000	0000	0000	0000
+4	0000	0000	0000	0000
+5	0000	0000	0000	0000
+6	0000	0000	0000	0000
+7	0000	0000	0000	0000

where:

SS = Station Number

T's = System Time (as defined in TM-(L)-834/000/01)

V's = Specified Vehicle Time

Z's = Fractional part of System Time in milliseconds

CKSUM = Arithmetic Complement Checksum

4.0 METHOD

Upon entrance, SCGR determines, by use of the SIPSA elapsed time counter (STCE), whether or not a message should be generated for this particular generation cycle. In other words, a test is made to determine whether NN* seconds (simulated) of generation time have elapsed since the previous message was formatted. If less than NN seconds have elapsed, an exit is taken with no message formed.

If the time test indicates the need for a time message, the message is generated and placed in the SIPSA System Table, SIMBUF. This message will contain the simulated vehicle time from one of two SIPSA counters, STCA or STCB or if a TIMEC card is read, vehicle time will be determined using the least significant bit value and number of bits from the input card. The particular one to be used is determined by Column 5 of the input card image. After formatting the message, a normal exit is taken. (See Appendix A for a flow diagram of SCGR.)

^{*}MN is the number of seconds specified in the input card image (see Section 3.4.)

8.0 VALIDATION TEST

8.1 Inputs

The following deck was input to the SIPSA system with standard COP operating procedures to validate the operation of SCGR. (See TM-(L)-734/022/00 for card formats).

*13 SIPSA START TIMEA	0 0 31 A	5 B	BUSC 0240		BB 0008	02	11	07	01	04
GENERATE	0120									
TIMEB		10								
GENERATE	0120									
TIMEC		05	17	٥.	125					
GENERATE	0200									
END-XMIT STOP										

8.2 Outputs

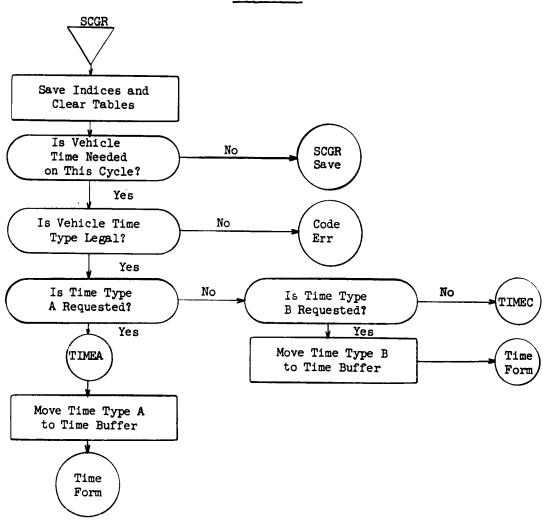
As a result of these inputs, SCGR generated 55 vehicle time messages of the proper type, one for each NN second interval of simulated time. One of the messages taken from a tape dump of the simulation tape follows:

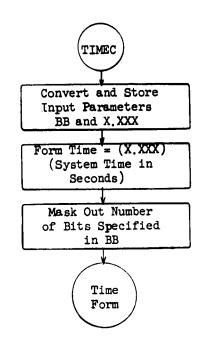
7777	3715	0000	0036
0000	0036	0000	3766
0000	0000	0000	0000

9.0 REFERENCES

- 9.1 TM-(L)-734/015/00, Computer Program Design Specifications for the Simulation of the Augmented SCF Environment at the STA and CPDC (Milestone 4), System Development Corporation, 21 November 1962.
- 9.2 TM-(L)-734/022/00, Computer Operating Instructions for the Simulated Input Preparation System for the Augmented SCF Environment at the STA and CPDC (SIPSA), Milestone 7, System Development Corporation, 1 February 1963.
- 9.3 TM-(L)-834/000/01, Bird Buffer Combined Milestone 3 and 4, System Development Corporation, 17 December 1962.

APPENDIX A





DISTRIBUTION (EXTERNAL)

Space Systems Division (Contracting Agency) Maj. C. R. Bond (SSOCD) Maj. N. D. LaVally (SAFSP-206) 6594th Aerospace Test Wing (Contracting Agency) Lt. Col. N. S. Alton (TWOI) (10) Lt. Col. M. S. McDowell (TWOCU-2) TWACS (20) + Tellum PIR-El (Lockheed) J. A. Boysen B. J. Jones G. D. Lawrence G. J. Taylor R. L. Vader P. E. Williams PIR-E2 (Philco) J. A. Bean J. Calder J. R. D. Cunningham (3) C. C. Hoagland (4) R. M. Kashef W. Lafleur J. M. McMenomey (3) D. F. J. Romano (3) J. F. Yore (3) V. PIR-E3 (DDI) D. F. Criley K. B. Williams PIR-E4 (GE-Sunnyvale) D. Alexander (2) PIR-E4 (GE-Box 8555) J. S. Brainard H. G. Klose

PIR-E4 (GE-3198 Chestnut) J. F. Butler C. A. Cummings H. D. Gilman PIR-E4 (GE-Bethesda) W. L. Massey PIR-E4 (GE-Box 8661) F. T. Clark J. D. Roger W. R. Weinrich PIR-E5 (Aerospace) F. M. Adair C. H. Shorter J. W. Benston R, O. Brandsberg L. H. Garcia G. J. Hansen (3) L. J. Kriesberg Sorrels T. R. Parkin E. A. Ragland E. E. Retzlaff H. M. Reynolds Saadeh D. D. Stevenson White PIR-E8 (Mellonics) F. Druding

TRYFON, G. A.	2/275		
	24075	WINSOR, M. E.	22088
TUCKER, A. E.	22113	WINTER, J. E.	24115A
WARSHAW, L.	22073	WOLF. A. W.	24097
WEINSTOCK, M.	22130	WONG, J. P.	SUNNYVALE
WEST, G. P.	22116A	ZACHTE, S. A.	24094
WILLIAMS, H. D.	22110	ZUBRIS, C. J.	24075
WILSON, G. D.	24124	R. Frey	23010
		J. Solomon	23011
		H. Martin	2517PC

DISTRIBUTION (EXTERNAL)

AFCPL	5	14059	4	
ALDANA, J.		22127	KOLBO, L. A.	22081
ALPERIN, N. I.		22084	LAUGHLIN, J. L.	24073
ARMSTRONG, E.		24123	LAVINE, J.	24091
BIGGAR, D. A.		24118A	LEE, H.	24090
BILEK, R. W.		22101	LEWIS, H. L.	22095
BURKE, B. E.		24077	LILLY, C. A.	24094
BURKE, R. F.		22082	LITTLE, J. L.	24082B
BUSCH, R. E.		22147B	LONG, F.	22078
BUSTYA, C.		22126	LYTTON. J. G.	22113
CHAMPAIGN, M. E.		22091A	MADRID, G. A.	23015
CHIODINI, C. M.		24086	MAHON, G. A.	24089
CLEMENTS, R. F.		22109	MARIONI. J. D.	24076B
CLINE, B. J.		24127	MARSHALL, R. D.	22088
COGLEY, J. L.		22122	MARTIN. W. P.	24129
CONGER, L.		24076	MCKEOWN J. C.	22083
COOLEY, P. R.		24081	MILANESE, J. J.	22078
COONS, R. E.		22073	MISSLER, N. J.	24085
COURT, T. D.		23015	MOSS, D.	24083
CRUM, D. W.		24019	MUNSON, J. B.	22096A
DANT, G. B.		24098	MYERS, G. L.	14056A
DECUIR, L. E.		24051A	NELSON, P. A.	23014
DERANGO, W. C.		24090A	NG. J.	23015
DISSE, R. J.		22082	NGOU, L.	24125
DOBRUSKY, W. B.		22152A	OLSON, A. H.	22129
DUGAS, R. L.		22123	OLSON, M. M.	22077
EASTMAN. T. A.		22101	PADGETT, L. A.	24108
ELLIOT, D. W.		24075	PATIN, O. E.	SUNNYVALE
ELLIS, R. C.		22131A	PERRY, G. H.	22095
FRICKSEN, S. R.		22117	PERSICO, D. J.	24105
FELDSTEIN, H. F.		24128	POLK. T. W.	24115B
FETCHEL, J.		22070	REEVES. B. L.	24073
FRANKS, M. A.		24122	REILLY. D. F.	24121
FRIEDMAN, L. A.		22134	REMSTAD, C. L.	25030
GARDNER, S. A.		22160	RESNICK + H.	22135
GIFFORD, R. N.		22134	RITCHIE, C. D.	24075
GRFENWALD, I. D.		22116B	ROBINSON, A. B.	24132
HAAKE, J. W.		22099	SALBA, L.	24083
HENLEY, D. E.		22096	SCHROEDER, J. B.	24124
HILL, C. L.		22161	SCOTT, R. J.	24110
HILLHOUSE, J.		23010	SEACAT, C. M.	SUNNYVALE
HOLZMAN, H. J.		24065B	SHAPIRO, R. S.	24114
HUDSON, G. R.		24126	SHOEL, S. J.	22130
JOHNSON, R. E.		22125	SKELTON, R. H.	22087
KASTAMA, P. T.		23011	STONE, E. S.	24058B
KASTEN, T. V.		24075	SWEENEY, M. J.	25030
KATZ• M•		25014	TABER, W. E.	22153
KAYSER, F. M.		24109	TANOUS, M. A.	22070
KEDDY, J. P.		24107	TENNANT, T. C.	27029
KNEEMEYER, J. A.		22147A	THOMPSON. J. W.	24082A
KNIGHT, R. D.		22117	TOTSCHEK, R. A.	24118B

UNCLASSIFIED

System Development Corporation,
Santa Monica, California
1604 SIMULATION PROGRAM
DESCRIPTIONS MILESTONE 11
SIMULATED VEHICLE TIME MESSAGE
MAKEUP ROUTINE (SCGR).
Scientific rept., TN-734/032/00B,
By Pr To Mastage, 721 October 1963, 7p.
(Contract AF 19(628)-1648, Space Systems
Division Program, for Space Systems
Division, AFSC)

Unclassified report

DESCRIPTORS: Programming (Computers). Satellite Networks.

UNCLASSIFIED

UNCLASSIFIED

Modifies TM-734/032/00, by P. T. Kastama, dated 21 October 1963, IDC number 404 700.

UNCLASSIFIED

TM-(L)-734/032/00

TECHNICAL MEMORANDUI

(TM Series)

DDC AVAILABILITY NOTICE

Qualified requesters may obtain copies of this report from DDC.

This document was produced by SDC in performance of contract AF 19(628)-1648, Space Systems Division Program, for Space Systems Division, AFSC.

1604 Simulation Program Descriptions Milestone 11.

SYSTEM

Simulated Vehicle Time Message Makeup Routine DEVELOPMENT (SCGR)

CORPORATION

ру

P. T. Kastama

2500 COLORADO AVE.

15 March 1963

SANTA MONICA

Approved

CALIFORNIA

J. B. Munson

The views, conclusions or recommendations expressed in this document do not necessarily reflect the official views or policies of agencies of the United States Government.

Permission to quote from this document or to reproduce it, wholly or in part, should be obtained in advance from the System Cevelopment Corporation.

Although this document contains no classified information it has not been cleared open publication by the Department of Defense. Open publication, wholly prohibited without the prior approval of the System Development Corpora



TABLE OF CONTENTS

		<u> </u>	age
1.0	IDENT	IFICATION	1
2.0	PURPO	SIB	1
3.0	USAGE		1
	3.1 3.2 3.3 3.4 3.5 3.6	Calling Sequence. Operational Procedure. Input Parameters. Control Card Format. Error Printouts. Output Data Format.	1 1 2 2 2
4.0	METHO	D	3
5.0	RESTR	ICTIONS	4
	5.1 5.2 5.3 5.4	Subroutine Restriction Subroutines Required RIPOOL Items Used External Tables Required	14 14 14
6.0	TIMIN	3	14
7.0	STORA	JE REQUIREMENTS	14
8.0	VALID	ATION TEST	5
	8.1 8.2	InputsOutputs	5
9.0	REFER	ENCES	5
APPINI	OTY A	- Flow Diagram of SCOR	6

1.0 IDENTIFICATION

1.1 Title

Simulated Vehicle Time Message Makeup Routine (SCGR)

Ident: KO6, Mod. 03

1.2 Programmed

December 1962, R. E. Busch, System Development Corporation

1.3 Documented

March 1963, P. T. Kastama, System Development Corporation

2.0 PURPOSE

This program will generate vehicle time messages once for every NN seconds of simulated time. These messages will then be included on a simulated Bird Buffer - 1604 Transfer Tape, or a Bird Buffer Simulation Tape.

- 3.0 USAGE
- 3.1 Calling Sequence

RTJ

SCGR

L+1

L

NORMAL RETURN

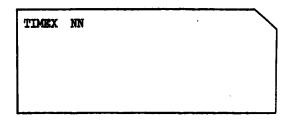
3.2 Operational Procedure

SCGR may only be used with the SIPSA system. The SIPSA control program will set up the above calling sequence after performing several initialization operations. (See TM-(L)-734/022/00 for information on the SIPSA system.)

3.3 Input Parameters

The SIPSA System Time cells STCA, STCB, STCC, STCD, and STCE must have been preset and updated by the control function.

3.4 Control Card Format



where:

Columns 1-4 = Time

5 = A or B to specify the type of vehicle time counter.

15-16 = A decimal number (O1 \leq NN \leq 99) which specifies the desired time interval between time messages. If blank, a period of 30 seconds will be used.

3.5 Error Printouts

If Column 5 of the input card image contains any BCD character other than A or B, subroutine SEAPA is entered for an on-line printout of the error, recovery options, and an error halt. The on-line message is:

ILLEGAL VEHICLE TIME TYPE SPECIFIED, PUSH START TO GENERATE OTHER DATA OR FIX CARD AND RE-START WITH AUTOLOAD.

3.6 Output Data Format

The output of SCGR is a vehicle time message packed in the SIPSA System Table, SINBUF. The message in SIMBUF will appear as follows:

SIMBUF +0	0000	0000	0000	0010
+1	7777	8815	COTT	TTTT
+2	vvvv	vvvv	2222	CKSUM
+3	0000	0000	0000	0000
+4	0000	0000	0000	0000
+5	0000	0000	0000	0000
+6	0000	0000	0000	0000
+7	0000	0000	0000	0000

where:

SS = Station Number

T's = System Time (as defined in TM-(L)-834/000/01)

V's = Specified Vehicle Time

Z's = Fractional part of System Time in milliseconds

CKSUM = Arithmetic Complement Checksum

4.0 METHOD

Upon entrance, SCGR determines, by use of the SIPSA elapsed time counter (STCE), whether or not a message should be generated for this particular generation cycle. In other words, a test is made to determine whether NN* seconds (simulated) of generation time have elapsed since the previous message was formatted. If less than NN seconds have elapsed, an exit is taken with no message formed.

If the time test indicates the need for a time message, the message is generated and placed in the SIPSA System Table, SIMBUF. This message will contain the simulated vehicle time from one of two SIPSA counters, STCA or STCB. The particular one to be used is determined by Column 5 of the input card image. After formatting the message, a normal exit is taken. (See Appendix A for a flow diagram of SCGR.)

^{*}MM is the number of seconds specified in the input card image (See Section 3.4.)

5.0 RESTRICTIONS

- 5.1 This subroutine is not a COP function and may only be used with the SIPSA system.
- 5.2 Subroutines Required

SIPSA

SIMBLANK

SDGC

DECOCT

SEAPA

5.3 RIPOOL Items Used

ST

5.4 External Tables Required

SIMBUF	STCC
STCA	STCD
STCB	STCE

6.0 TIMING*

Minimum

Maximum

0.3 milliseconds

1.2 milliseconds

7.0 STORAGE REQUIREMENTS

	<u>Decimal</u>	Octal
Program	60	75
Constants	3	3
Temporary Storage	20	24
Total	83	123

^{*}Timing values were computed based on average instruction times.

8.0 VALIDATION TEST

8.1 Inputs

The following deck was input to the SIPSA system with standard COP operating procedures to validate the operation of SCGR. (See TM-(L)-734/022/00 for card formats.)

*13 SIPSA 0 0 5 BUSCH BB

10

START 31 A B 02404 0008 02 11 07 01 04

TIMEA

GENERATE 0120

TIMEB

GENERATE 0120

end-xmit

STOP

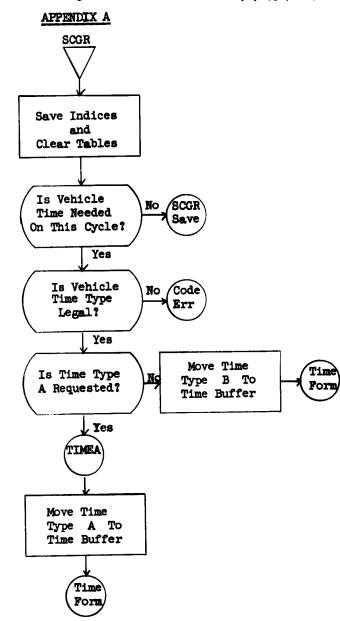
8.2 Outputs

As a result of these inputs, SCGR generated eight vehicle time messages of the proper type, one for each 30 second interval of simulated time. One of the messages taken from a tape dump of the simulation tape follows:

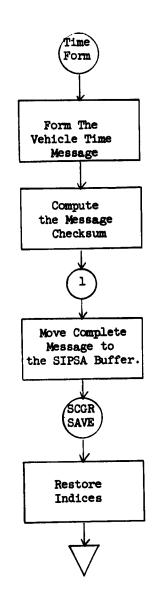
7777	3715	0000	0036
0000	0036	0000	3766
0000	0000	0000	0000

9.0 REFERENCES

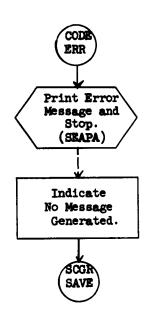
- 9.1 TM-(L)-734/015/00, Computer Program Design Specifications for the Simulation of the Augmented SCF Environment at the STA and CPDC (Milestone 4), System Development Corporation, 21 November 1962.
- 9.2 TM-(L)-734/022/00, Computer Operating Instructions for the Simulated Input Preparation System for the Augmented SCF Environment at the STA and CFDC (SIPSA), Milestone 7, System Development Corporation, 1 February 1963.
- 9.3 TM-(L)-834/000/01, Bird Buffer Combined Milestone 3 and 4, System Development Corporation, 17 December 1962.



,



- 8 - (Last Page)



,

1

DISTRIBUTION (EXTERNAL)

\ 	
Space Systems Division (Contracting Agency)	PIR-E4 (GE-Box 8555)
	J. S. Brainard
Maj. C. R. Bond (SSOCD)	R. J. Katucki
Maj. N. D. LaVally (SSOX)	J. D. Selby
6594th Aerospace Test Wing (Contracting Agency)	PIR-E4 (GE-3198 Chestnut)
	J. F. Butler
Lt. Col. A. W. Dill (TWRD) (10)	C. A. Cummings
Lt. Col. M. S. McDowell (TWRU)	H. D. Gilman
TWACS (20)	
	PIR-E4 (GE-Bethesda)
PIR-El (Lockheed)	
22. 22 (200.000)	W. L. Massey
J. A. Boysen	W. D. Massey
N. N. Epstein	PIR-E4 (GE-Box 8661)
W. E. Moorman	FIR-E4 (GE-BOX GOOL)
G. F. Taylor	F. T. Clark
R. L. Vader	J. D. Rogers
P. E. Williams	W. R. Weinrich
PIR-E2 (Philco)	PIR-E5 (Aerospace)
J. A. Bean	A. Bakst
J. A. Isaacs	J. W. Bengston
R. Morrison	R. V. Bigelow
S. M. Stanley	R. O. Brandsberg
	L. H. Garcia
PIR-E3 (LFE)	G. J. Hansen
	M. L. Luther
D. F. Criley	T. R. Parkin
K. B. Williams	E. E. Retzlaff
BBY AF TI AN ALLIAND DEPOSITOR	R. G. Stephenson
PIR-E4 (GE-Santa Clara)	D. D. Stevenson
	V. White
D. Alexander	A. MITTOG
,	PIR-E8 (Mellonics)
PIR-E4 (GE-Sunnyvale)	LTU-DO (METTOUTER)
- TW-MA / CM-DOWN) ASTE)	70\
T Varmantina	F. Druding (3)
J. Farrentine	
N. Kirby	

NAME		ROOM
D. Reilly		24121
A. Robinson		24132
M. Rockwell		24086
J. Schroeder		24124
R. Scott		24110
C. Seacat		Sunnyvale
H. Seiden		22126
R. Shapiro		24110
S. Shoel		23007
R. Skelton		22152
N. Speer		24086
E. Stone		24058
M. Sweeney		25026
W. Taber		22101
T. Tennant J. Thompson		27029
J. Thompson		24088
C. Toche		24121
R. Totschek		24120
A. Tucker		22109
A. Vorhaus		24076
M. Weinstock		22131
S. Weems		22109
G. West		Sunnyvale
G. P. West		22116
H. Williams		22110
G. Wilson		24124
M. Winsor		22156
J. Winter		24117
R. Wise		22085
J. Wong		Sunnyvale
C. Zubris		24075
AFCPL	(5)	14059

DISTRIBUTION (INTERNAL)

NAM	Œ	ROOM	NAN	Œ	ROOM
D.	Allfree	24083	J.	Haake	22153
	Aldana	22131	D.	Henley	22094
	Alexander	22134	C.	Hill	22101
	Alperin	22153	J.	Hillhouse	22078
	Armstrong	24123	H.	Holzman	24065
				Hudson	24126
c.	Becerra	24082			
D.	Biggar	24118	R.	Johnson	22125
	Bilek	23007			
L.	Brenton	24103	P.	Kastama	22076
В.	Burke	24086	M.	Katz	25014
	Burke	22158	F.	Kayser	24109
R.	Busch	22088		Keddy	24105
	Bustya	22134	D.	Key	23013
-		_	R.	Keyes	24073
M.	Champaign	22152	J.	Kneemeyer	22088
	Chiodini	24091		Knight	22119
	Ciaccia	24082		Kolbo	22155
	Clements	22109			
	Cline	24127	J.	Laughlin	24073
	Cogley	22156		LaVine	24093
	Conger	24088	H.	Levis	23010
	Cooley	24086	J.	Little	24088
	Crum	24105	F.	Long	22156
		_		Lytton	24077
L.	DeCuir	24053		•	
W.	Derango	24082	G.	Madrid	22081
G.	Dexter	25016	G.	Mahon	24089
R.	Disse	23014	J.	Marioni	24076
G.	Dobbs	22116	R.	Marshall	22160
W.	Dobrusky	24065	W.	Martin	24127
R.	Dugas	22125	J.	McKeown	23013
			J.	Milanese	22155
R.	Ellis	22131	J.	Munson	22087
R.	Ericksen	22113	G.	Myers	22095
н.	Feldstein	24128	P.	Nelson	24075
	Francis	25013		Ng	22077
	Franks	24122		Ngou	24127
	Frey	22078	۵.	1180 m	C-726 1
	Friedman	22122	М.	Olson	22161
_,			***	- 40011	
s.	Gardner	25026	L.	Padgett	24110
v.	Gergen	25014		Patin	Sunnyvale
I.	Greenwald	22094	D.	Persico	24083
			T.	Polk	24113

UNCLASSIFIED

System Development Corporation, Santa Monica, California 1604 SIMULATION FROGRAM DESCRIPTIONS MILESTONE 11 SIMULATED VENICLE TIPS MESSAGE MAKEUP ROUTINE (SCGR). Scientific rept., TM(L)-734/032/00, by P. T. Kastema. 15 March 1963, 8p., 3 refs. (Contract AF 19(628)-1648, Space Systems Division Program, for Space Systems Division, AFSC)

Unclassified report

DESCRIPTORS: Programming (Computers) - Satellite Networks.

UNCLASSIFIED

Reports that SCGR (Simulated Vehicle Time Message Makeup Routine) will generate vehicle time messages once for every ME seconds of simulated time. Also reports that these messages will be included on a simulation Bird Buffer - 1604 Transfer Tape, or a Bird Buffer Simulation Tape.

UNCLASSIFIED

UNCLASSIFIED